BEST AVAILABLE COPY

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listing of claims in the application.

1. (Currently Amended) A method of operating on a virtual content repository (VCR) that represents a plurality of content repositories having different types of content, the method comprising:

creating a hierarchy of hierarchy nodes in the VCR comprising the substeps of: [[,]]

indicating a location of each hierarchy node in the hierarchy by an identifier;

wherein the node has an identifier that indicates a location of the node in said VCR

relating each hierarchy node to a type of content; and

associating each hierarchy node with a first schema;

associating [[the]] each hierarchy node with at least one content node;
associating each content node with a second schema; of:-1) a property; and 2) a schema;
storing the hierarchy and content nodes in [[said]] the VCR; and

wherein storing the <u>hierarchy and content</u> nodes in [[said]] the VCR will result in the at-least-one property and/or results in storing each schema [[being stored]] in one of [[said]] the plurality of content repositorics.

- 2. (Currently Amended) The method of claim 1 wherein:

 the first and second schemas comprise one or more properties, wherein each [[the]] property is an association between a name and at least one value.
- 3. (Original) The method of claim 2 wherein:
 the at least one value can be a text string, a number, an image, an audio/visual presentation, or binary data.
- 4. (Currently Amended) The method of claim I [[wherein]] further comprising:

 integrating each one of the plurality of content repositories into the VCR by use of one or more of

 a VCR browser, a content node editor, a schema editor and a property editorexposes a first set of services
 to enable its integration into the VCR.
- 5. (Currently Amended) The method of claim [[1]] 2 wherein:
 [[the schema includes]] each property comprises at least one property definition.

Attorney Docket No.: BEAS-01363US0 SRM/KFK/JDM JMissud/wp/Beas/1300-1399/1363us0/Reply to OA

- 6. (Currently Amended) The method of claim 5 wherein:
- [[a]] the at least one property definition can specify at least one of [[the following for a property]]:

property choices;

a reference;

a data type;

whether [[the]] each property is mandatory;

whether [[the]] each property is multi-valued;

whether [[the]] each property is primary;

whether [[the]] each property is read-only; and

whether [[the]] each property is restricted.

- 7-8. (Canceled).
- 9. (Currently amended) A method of operating on a virtual content repository (VCR) that represents a plurality of content repositories having different types of content, the method comprising:

creating [[obtaining]] a hierarchy of hierarchy nodes in [[from said]] the VCR comprising the substeps of: [[,]]

indicating a location of each hierarchy node in the hierarchy by an identifier;

wherein the node has an identifier that indicates a location of the node in said VCR

relating each hierarchy node to a type of content; and

associating each hierarchy node with a first schema;

creating a content node for each of the plurality of content repositories;

associating each hierarchy node with at least one content node;

associating each content node with a second schema-wherein the node is associated with information that includes at least one of: 1) a property; and 2) a schema;

storing each schema wherein the node information is stored in [[at least]] one of [[said]] the plurality of content repositories; and

integrating [[wherein]] each one of the plurality of content repositories into the VCR by use of one or more of a VCR browser, a content node editor, a schema editor and a property editor exposes a first set of services to enable its integration into the VCR.

- 10. (Currently amended) The method of claim 9 wherein:
- the first and second schemas comprise one or more properties, wherein each [[a]] property is an association between a name and at least one value.
- 11. (Original) The method of claim 10 wherein:

the at least one value can be a text string, a number, an image, an audio/visual presentation, or binary data.

- 12. (Original) The method of claim 9 wherein: the identifier is a path.
- (Currently amended) The method of claim [[9]] 10 wherein:

 [[a schema includes]] each property comprises at least one property definition.
- 14. (Currently amended) The method of claim 13 wherein:
- [[a]] the at least one property definition can specify at least one of [[the following for a property]]:

property choices;

a reference;

a data type;

whether [[the]] each property is mandatory;

whether [[the]] each property is multi-valued;

whether [[the]] each property is primary;

whether [[the]] each property is read-only; and

whether [[the]] each property is restricted.

- 15-16. (Canceled).
- 17. (Currently amended) A method of operating on a virtual content repository (VCR) that represents a plurality of content repositories having different types of content wherein the VCR has a node and wherein said node is associated with information, [[said]] the method comprising:

selecting a node from a hierarchy of both hierarchy nodes and content nodes in the VCR, wherein a location of the node in the hierarchy of nodes is indicated by an identifier, each node is associated with a schema and each content node is associated with one of the plurality of content repositories; and

Aπomey Docket No.: BEAS-01363US0 SRM/KFK/JDM JMissud/wp/Beas/1300-1399/1363us0/Reply to OA

obtaining said-node, wherein said node has an identifier that indicates a unique location in said VCR;

performing an operation on [[said]] the node, wherein the operation is one of: [[1)]] deleting [[said]] the node; [[2)]] changing the location of [[said]] the node in the VCR; [[3)]] reading [[said]] the schema associated with the node [[information]]; and [[4)]] updating [[said]] the schema associated with the node [[information;]].

wherein the VCR represents a plurality of content repositories; and
wherein the information includes at least one of [[: 1)]] a property[[;]] and [[2)]] a
schema.

18. (Currently amended) The method of claim 17 wherein:

the schema comprises one or more properties, wherein each [[a]] property is an association between a name and at least one value.

19. (Original) The method of claim 18 wherein:

the at least one value can be a text string, a number, an image, an audio/visual presentation, or binary data.

20. (Currently amended) The method of claim 17 [[wherein]] further comprising:

integrating each one of the plurality of content repositories into the VCR by use of one or more of a VCR browser, a content node editor, a schema editor and a property editorexposes a first set of services to enable its integration into the VCR.

- 21. (Currently amended) The method of claim [[17]] 18 wherein:

 [[a schema includes]] each property comprises at least one property definition.
- 22. (Currently amended) The method of claim 21 wherein:
- [[a]] the at least one property definition can specify at least one of [[the following for a property]]:

property choices;

a reference;

a data type;

whether [[the]] each property is mandatory;

whether [[the]] each property is multi-valued;

whether [[the]] each property is primary;

Attorney Docket No.: BEAS-01363US0 SRM/KFK/JDM 10

JMissud/wp/Beas/1300-1399/1363us0/Reply to OA

whether [[the]] each property is read-only; and whether [[the]] each property is restricted.

23-32. (Canceled).

of content repositories having different types of content, the system comprising:

means for [[obtaining a node]] selecting a node from a hierarchy of both hierarchy nodes and content nodes in the VCR, wherein a location of the node in the hierarchy of nodes is indicated by an identifier, the node is associated with a schema and each content node is associated with one of the plurality of content repositories; and[[,]] wherein the node has an identifier that indicates a unique location in a virtual content repository (VCR), and wherein the node is associated with information;

means for performing an operation on the node, wherein the operation is one of [[: 1)]] deleting the node; [[2)]] changing the location of the node in the VCR; [[3)]] reading the schema associated with the node [[information]]; and [[4)]] updating the schema associated with the node [[information;]].

wherein the VCR represents a plurality of content repositories; and
wherein the information-includes at least one of [[: 1)]] a property; and [[2)]] a schema.

34. (Currently Amended) The system of claim 33 wherein:

a schema comprises one or more properties, wherein each [[the]] property is an association between a name and at least one value.

35. (Original) The system of claim 34 wherein:

the at least one value can be a text string, a number, an image, an audio/visual presentation, or binary data.

36. (Currently Amended) The system of claim 33 wherein:

each one of the plurality of content repositories is integrated into the VCR by use of one or more of a VCR browser, a content node editor, a schema editor and a property editorexposes a first set of services to enable its integration into the VCR.

37. (Currently amended) The system of claim [[33]] 34 wherein:

[[a schema includes]] each property comprises at least one property definition.

Attorncy Docket No.: BEAS-01363US0 SRM/KFK/JDM JMissud/wp/Beas/1300-1399/1363us0/Reply to OA

- 38. (Currently amended) The system of claim 37 wherein:
- [[a]] the at least one property definition can specify at least one of [[the following for a property]]:

property choices;

- a reference;
- a data type;
- -whether [[the]] each property is mandatory;
- whether [[the]] each property is multi-valued;
- whether [[the]] each property is primary;
- whether [[the]] each property is read-only; and
- whether [[the]] each property is restricted.

39-40. (Canceled).

41. (Currently Amended) A [machine] computer readable medium having instructions stored thereon that when executed by [a processor] one or more processors on the computer cause [a system] the computer to:

[[obtain]] select a node from a hierarchy of both hierarchy nodes and content nodes in the VCR wherein a location of the node in the hierarchy of nodes is indicated by an identifier, the node is associated with a schema and each content node is associated with one of the plurality of content repositories; and a node, wherein the node has an identifier that indicates a unique location in a virtual content repository (VCR), and wherein the node is associated with information;

perform an operation on the node, wherein the operation is one of [[: 1)]] deleting the node; [[2)]] changing the location of the node in the VCR; [[3)]] reading the schema associated with the node [[information]]; and [[4)]] updating the schema associated with the node [[information]];

wherein the VCR includes a plurality of content repositories; and wherein the information includes at least one of: [[1]] a property; and [[2)]] a schema.

42. (Currently Amended) The [machine] computer readable medium of claim 41 wherein:

the schema comprises one or more properties, wherein each [[the]] property is an association between a name and at least one value.

- 43. (Currently Amended) The [machine] computer readable medium of claim 42 wherein:

 the at least one value can be a text string, a number, an image, an audio/visual presentation, or binary data.
- 44. (Currently Amended) The [machine] computer readable medium of claim 41 wherein:

 each one of the plurality of content repositories is integrated into the VCR by use of one or more

 of a VCR browser, a content node editor, a schema editor and a property editorexposes a first-set of
 services to enable its integration into the VCR.
- 45. (Currently Amended) The [machine] computer readable medium of claim [[41]] 42 wherein: [[the schema includes]] each property comprises at least one property definition.
- 46. (Currently Amended) The [machine] computer readable medium of claim 45 wherein:

 [[a]] the at least one property definition can specify at least one of [[the following for a property]]:

property choices;
a reference;
a data type;
whether [[the]] <u>each</u> property is mandatory;
whether [[the]] <u>each</u> property is multi-valued;
whether [[the]] <u>each</u> property is primary;
whether [[the]] <u>each</u> property is read-only; and
whether [[the]] <u>each</u> property is restricted.

47-48. (Canceled).

- 49. (New) The method of claim 1 wherein: the identifier is a path.
- 50. (New) The method of claim 17 wherein: the identifier is a path.
- 51. (New) The system of claim 33 wherein: the identifier is a path.

Attorney Docket No.: BEAS-01363US0 SRM/KFK/JDM
JMissud/wp/Beas/1300-1399/1363us0/Reply to OA

- 52. (New) The computer readable medium of claim 41 wherein: the identifier is a path.
- 53. (New) A method of operating on a virtual content repository (VCR) that represents a plurality of content repositories having different types of content, the method comprising:

creating a hierarchy of hierarchy nodes in the VCR comprising the substeps of:

indicating a location of each hierarchy node in the hierarchy by an identifier; and relating each hierarchy node to a type of content;

creating content nodes for each of the plurality of content repositories;

associating each hierarchy node with at least one content node; and storing the hierarchy and content nodes in the VCR.

- 54. (New) The method of claim 53 further comprising: associating each hierarchy node with a first schema.
- 55. (New) The method of claim 53 further comprising: associating each content node with a second schema.
- 56. (New) The method of claim 55 wherein:
 the second schema comprises one or more properties, wherein each property is an association between a name and at least one value.
- 57. (New) The method of claim 56 wherein:

 the at least one value can be a text string, a number, an image, an audio/visual presentation, or binary data.
- 58. (New) The method of claim 53 further comprising:
 integrating each one of the plurality of content repositories into the VCR by use of one or more of
 a VCR browser, a content node editor, a schema editor and a property editor.
- 59. (New) The method of claim 56 wherein:
 each property comprises at least one property definition.

60. (New) The method of claim 59 wherein:

a the at least one property definition can specify at least one of:

property choices;

a reference;

a data type;

whether each property is mandatory;

whether each property is multi-valued;

whether each property is primary;

whether each property is read-only; and

whether each property is restricted.

61. (New) The method of claim 53 wherein: the identifier is a path.

62. (New) A method of operating on a virtual content repository (VCR) that represents a plurality of content repositories having different types of content, the method comprising:

selecting a node from a hierarchy of both hierarchy nodes and content nodes in the VCR, wherein a location of the node in the hierarchy of nodes is indicated by an identifier and each content node is associated with one of the plurality of content repositories; and

performing an operation on the node, wherein the operation is one of: deleting the node; changing the location of the node in the VCR; reading the node; and updating the node.

63. (New) The method of claim 62 wherein:

the node is associated with a schema comprising one or more properties, wherein each property is an association between a name and at least one value.

64. (New) The method of claim 63 wherein:

the at least one value can be a text string, a number, an image, an audio/visual presentation, or binary data.

65. (New) The method of claim 62 further comprising:

integrating each one of the plurality of content repositories into the VCR by use of one or more of a VCR browser, a content node editor, a schema editor and a property editor.

Attorney Docket No.: BEAS-01363US0 SRM/KFK/JDM JMissud/wp/Beas/1300-1399/1363us0/Reply to OA

66. (New) The method of claim 63 wherein:
each property comprises at least one property definition specifying at least one of:
property choices;
a reference;
a data type;
whether each property is mandatory;
whether each property is multi-valued;
whether each property is primary;
whether each property is read-only; and
whether each property is restricted.

This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

	☐ BLACK BORDERS
	☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
	☐ FADED TEXT OR DRAWING
	☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
	☐ SKEWED/SLANTED IMAGES
	☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
	GRAY SCALE DOCUMENTS
(LINES OR MARKS ON ORIGINAL DOCUMENT
	REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
	OTHER:

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.